

Title (en)

Electrical connector with plug detection switch.

Title (de)

Elektrischer Verbinder mit Steckererkennungsschalter.

Title (fr)

Connecteur électrique avec interrupteur de détection d'enfichage.

Publication

EP 0550854 A2 19930714 (EN)

Application

EP 92121428 A 19921217

Priority

US 81925192 A 19920109

Abstract (en)

A plug detection electrical receptacle (10) includes a dielectric housing (14) having at least one passage (20) with an open mating end for receiving a male terminal of a complementary mating electrical plug. A female terminal (22a) is disposed in the passage (20) for engagement by the male terminal. A detect switch is located in proximity to the passage (20) for actuation by the male terminal when the male terminal is inserted into the passage in engagement with the female terminal (22a). The detect switch includes a detect contact (58) engageable by a resilient actuator contact (36), with the resilient actuator contact (36) having an insulating separator (38) non-removably fixed thereto. The insulating separator (38) is disposed in a path of insertion of the male terminal for engagement by the male terminal to bias the resilient actuator contact (36) into engagement with the detect contact (58) to close a circuit therethrough. The detect contact (58) and the resilient actuator contact (36) are inserted into passageways (68,66) in the housing, the passageways having open ends in the same side of the housing as the open end of the passage for the female terminal, whereby the contacts and the terminal can be assembled into the housing in the same direction on the same side of the housing. <IMAGE>

IPC 1-7

H01R 13/629; H01R 13/703

IPC 8 full level

H01R 13/703 (2006.01)

CPC (source: EP US)

H01R 13/7035 (2013.01 - EP US)

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

US 5186639 A 19930216; EP 0550854 A2 19930714; EP 0550854 A3 19940427; JP 2978948 B2 19991115; JP H05275141 A 19931022

DOCDB simple family (application)

US 81925192 A 19920109; EP 92121428 A 19921217; JP 36122192 A 19921228